

The invention relates to the food industry, in particular to drying plants for fruits and vegetables using three drying methods: convection drying, drying using microwaves and drying in a CO₂ medium using microwaves, using convection or combination thereof.

The plant, according to the invention, comprises a housing (1), on which are placed a drying chamber (15), a heat generator (13) with a centrifugal fan (10) and an electric motor (8) with an inverter (6). The chamber (15) is connected via a recirculation pipeline (17) to a condenser (12), which is connected to the fan (10) via an intermediate pipeline (9), equipped with a nozzle (11). A microwave generator (14) is mounted on the drying chamber (15), and under it is placed an intermediate chamber (20) with weights (19). In the lower part of the drying chamber (15) is mounted a cover (21) with a CO₂ indicator (16) and a CO₂ receiver (18). The plant further comprises a processor (2) for controlling the microwave generator (14), a refrigerating plant (3) for controlling the condenser (12) by means of a pipe (22), a resistor (5) for controlling the heat generator (13) and a CO₂ capacity (4) for supplying CO₂ into the plant by means of a hose (7).

Claims: 1

Fig.: 3

